

Title (en)
PYLON CONVERSION ACTUATOR FOR TILTROTOR AIRCRAFT

Title (de)
PYLON-UMWANDLUNGSAKTUATOR FÜR KIPPROTORFLUGZEUGE

Title (fr)
ACTIONNEUR DE CONVERSION DE PYLÔNE POUR AVION À ROTORS BASCULANTS

Publication
EP 4011771 B1 20230503 (EN)

Application
EP 21212435 A 20211206

Priority
US 202017119703 A 20201211

Abstract (en)
[origin: EP4011771A1] Disclosed is a propulsion assembly (20a) for a tiltrotor aircraft (10) having a wing (18), the tiltrotor aircraft (10) operable in a hover flight mode and a forward flight mode, the propulsion assembly (20a) comprising: a fixed pylon (22a); a rotor system (24a) comprising a rotor system central axis (128); a pivotable attachment (102) coupling the rotor system (24a) to the fixed pylon (22a), the pivotable attachment (102) comprising a conversion axis (104), wherein the rotor system (24a) is configured to selectively rotate about the conversion axis (104); a pylon conversion actuator (106) comprising: a first actuator mount (110, 122) directly coupled to the fixed pylon (22a); a second actuator mount (112) directly coupled to the rotor system (24a); and an extendable arm (120) coupled to the first actuator mount (110, 122) and the second actuator mount (112) and actuatable between an extended position and a retracted position; wherein in the extended position, the pylon conversion actuator (110, 122) places the rotor system (24a) in a first rotor position; and wherein in the retracted position, the pylon conversion actuator (106) places the rotor system (24a) in a second rotor position.

IPC 8 full level
B64C 29/00 (2006.01)

CPC (source: EP US)
B64C 29/0033 (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 4011771 A1 20220615; EP 4011771 B1 20230503; US 11745867 B2 20230905; US 2022185469 A1 20220616

DOCDB simple family (application)
EP 21212435 A 20211206; US 202017119703 A 20201211